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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|---------------------------------------|-------------|----------------------|-------------------------|-----------------|
| 09/800,127 | 03/06/2001 | Richard E. Riman | P-24,186 USA | 3817 |
| 7590 10/23/2003 | | | EXAMINER | |
| Synnestvedt & Lechner LLP | | | LEVY, NEIL S | |
| 1101 Market Street 2600 Aramark Tower | | | ART UNIT | PAPER NUMBER |
| Philadelphia, PA 19107-2950 | | | 1616 | 184 |
| | | , | DATE MAILED: 10/23/2003 | , , |

Please find below and/or attached an Office communication concerning this application or proceeding.





UNITED STATES DEPARTMENT OF COMMERCE Patent and 1. ademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NUMBER FILING DATE FIRST NAMED APPLICANT ATTORNEY DOCKET NO.

EXAMINER

ART UNIT PAPER NUMBER

DATE MAILED:

This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS

| OFFICE ACTION SUMMARY | |
|---|---|
| Responsive to communication(s) filed on | |
| This action is FINAL. | |
| Since this application is in condition for allowance except for formal matters, prosecution | on as to the merits is closed in |
| accordance with the practice under Ex parte Quayle, 1935 D.C. 11; 453 O.G. 213. | |
| A shortened statutory period for response to this action is set to expire | month(s), or thirty days, the period for response will cause ned under the provisions of 37 CFR |
| Disposition of Claims | |
| (a) (a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d | is/are pending in the application. |
| Of the above, claim(s) | is/are withdrawn from consideration. |
| ☑ Claim(s) 29 | io/oro allowed |
| $\frac{Q_{\text{Claim(s)}}}{Q_{\text{Claim(s)}}} = \frac{6 - 10, 15 - 19}{1 - 14, 20}$ | is/are rejected. |
| Ø Claim(s) 11-14, 20 | is/are objected to. |
| ☐ Claims are sub | |
| Application Papers | • |
| ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. | |
| ☐ The drawing(s) filed on is/are objected | d to by the Examiner. |
| ☐ The proposed drawing correction, filed on | • |
| ☐ The specification is objected to by the Examiner. | |
| ☐ The oath or declaration is objected to by the Examiner. | |
| Priority under 35 U.S.C. § 119 | |
| ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). | |
| ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have | e been |
| received. | |
| received in Application No. (Series Code/Serial Number) | |
| received in this national stage application from the International Bureau (PCT Rule | 17.2(a)). |
| *Certified copies not received: | |
| ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). | |
| Attachment(s) | |
| □ Notice of Reference Cited, PTO-892 | |
| ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). | • |
| ☐ Interview Summary, PTO-413 | |
| ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948 | |
| ☐ Notice of Informal Patent Application, PTO-152 | |
| - SEE OFFICE ACTION ON THE FOLLOWING PAGE | ES |

Application/Control Number: 09/800,127

Art Unit: 1616

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 6-10, 15-19 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Yasukawa et al '96.

The rejection of record is maintained. Claim 6 mechonochemically and hydrotermally reacts simultaneously sources of Ca, Mg, OH and PO₄ ions one of which is soluble in water, in water – Yasukawa <u>dissolves</u> in water Mg, Ca, OH and Stirs – Therefore, Mechanochemical dissolution and hydro (water) distilled (thermal) (effected by Stirring) is performed, then Pour is added – Now Ca, Mg, OH and PO₄ are simultaneously reacted – with stirring (p. 1401) Experimental. Mg substituted hydroxy appetite is thus formed (p.1402 – XRD measurements), as a pure phase.

Applicant's arguments that this is nothing more than state of the art, is not persuasive, because the only difference evident to examiner is that applicant <u>recites</u> a phase-pure crystalline Mg-substituted hydroxy appetite. (Yasukawa shows the crystalline/amorphous Mg substituted as a function of Xmg increase (Fig 4, b) versus F). also, the mechanochemical, and hydrothermal reactions, absent any quantification, are seen as met by stirring, a process known to increase temperature, in water. Finally since no compounds, reactants, quantities thereof and ratios are claimed, the claim is met by the Yasukawa reference.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neil Levy whose telephone number is (703) 308-2412. The examiner can normally be reached on Tuesday through Friday 7 AM to 5:30 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (703) 308-2927. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

1235.

Levy/LR October 3, 2003

NEIL S. LEVY
PRIMARY EXAMINER